**Chapter 8 Evolution Worksheet**

**Support for a Young Earth p217**

1. ***Volcanism*** (volcano eruptions)

a. If the rate of lava production has always been the same that it is today, there would now be a lava mound the size of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

b. Most evolutionist believe there was \_\_\_\_\_\_\_\_\_ volcanic activity in the past.

2. ***Water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. Water is being added to the Earth at a rate of \_\_\_\_\_\_\_\_\_\_\_\_ each year.

b. If the earth were billions of years old there would be no \_\_\_\_\_\_\_\_\_\_\_\_.

3. ***Meteoric \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. How much dust falls to the earth from space each year? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. If this much had fallen for 4 billion years, how deep would it be? \_\_\_\_\_\_\_\_\_

c. What chemicals in meteoric duct are rare in the Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. ***Soil \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. How long do evolutionists think it takes to make soil? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Actual measurements show that \_\_\_\_\_\_\_\_\_ of soil can form in \_\_\_\_\_ years.

5. ***Human \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_statistics***

a. Since Noah’s time \_\_\_ people have multiplied to \_\_\_\_\_\_\_\_\_\_\_\_\_ people.

b. In a million years there would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ people.

6. ***Decay of the Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Field***

a. Calculating backwards from the present rate of decay, how strong was the

Earth’s magnetic field 7000 years ago? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. 10,000 years ago, the Earth would be as magnetic as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of Helium***

a. What forms helium? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. If it had been forming for billions of years there would be \_\_\_\_\_\_\_\_\_\_\_\_\_\_

helium in Earth’s atmosphere than there is now.

8. ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of DNA***

a. DNA probably cannot last more than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years.

b. If DNA is formed in a specimen, it is probably \_\_\_\_\_\_\_\_\_\_\_\_\_ than this age.

9. ***Change in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DNA***

a. According to the mutation rate of mitochondrial DNA, the original person

lived \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ year ago.

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**8C-Biological Evolution p219-220**

Lamarck’s Theory of Evolution is based on 3 things:

**1. The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

An organism will evolve a structure if it \_\_\_\_\_\_\_\_\_\_\_\_ that structure.

**2. The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

If an organisms stops using a structure it will \_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_

**3. Theory of Inheritance of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Is an organism stretches its neck, its babies will be born with \_\_\_\_\_\_\_ \_\_\_\_\_**Analysis of Lamarck’s Theory p220-221**

1. How are long necks bad for giraffes? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. The fact that you need another hand to be able to quickly write down all of your

Biology notes does not change your \_\_\_\_\_\_\_\_\_\_\_\_ (another name for genes)

3. If you lose a finger will that change the genes you pass to your children? \_\_\_\_\_

4. How do Christians account for eyeless fish?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Darwin and Darwin’s Theory of Evolution p221-223**

1. Darwin was a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the ship named \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

and traveled to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Islands

2. In the year \_\_\_\_\_\_\_\_\_\_\_Darwin wrote \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in which he discussed:

a. ***Theory of Descent with Modification***

All living things descended from a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. ***Natural Selection***

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may affect individual organisms in a population.

Organisms compete with each other to get \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_ & \_\_\_\_\_\_\_.

Those with the best characterizes survive, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

and pass those characteristics to the next generation.

This principle is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_.

**Describe the use of peppered moths as proof of evolution.** (top of p224)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Peppered Moths: An Evolutionary Proof** (box on p224)

List 3 flaws in Kettlewell’s Peppered Moths experimental method.

1. Moths were released during the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. There was no change in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the trees.

3. Moths rest on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of upper tree branches and not on the

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of trees.

The process of natural selection poses no threat to the Biblical creationist. Why?

**Anaylsis of Darwin’s Theory p224**

Evolution is often defined as: *The change in the frequency of a characteristic in a population.* This is NOT biological evolution because:

1. nothing \_\_\_\_\_\_\_\_\_\_\_\_\_\_is made

2. a more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms did not develop